

Gimbal - Cardanically adjustable

Recessed spotlight with a compact high-precision swivel mechanism

Gimbal suspension is widely prevalent in technology and is a concept that is as old as Leonardo da Vinci, who suggested its use for nautical compasses. In lighting technology, gimbals are an elegant solution for pinpoint adjustment of the luminaires. Gimbal recessed spotlights transform this principle into the era of digital lighting – with a highly precise and convenient swivel mechanism in a compact design that stands apart from conventional approaches and enables

shallow recess depths. Different sizes and wattages for the full spectrum of light distributions make Gimbal ideal as a system for differentiated lighting design with focus on the high-contrast presentation of objects. With its unique technoid appearance in the ceiling, Gimbal lends itself perfectly to retail projects as well as to museums and other public buildings.



Technical Region: We reserve the right to make technical and design changes. Edition: 23.01.2025



Structure and characteristics The features described here are typical of products in this range. Special ver-sions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website can be found on our website.

1 ERCO Spherolit lens - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash Oval flood 360° rotation

2 ERCO LED-module

- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

- 3 Mounting ring
 Covered mounting detail
 Fixing for ceiling thicknesses of 1– 25mm (size 4) or 1-30mm (size 5–7)
 Polymer, white
 For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 12.5–25mm

4 Luminaire

- Black _
- Cast aluminium, powder-coated Gimbal suspension: polymer 0°-40° tilt _
- _

- 5 Control gear
 Switchable, phase dimmable, DALI dimmable or Casambi Bluetooth
 Phase dimmable version: Dimming with external dimmers possible (trailing edge)

- Variants on request Connection: 3- or 5-pole plug with connection cable (Wago or Wieland) Housing: 10,000 further colours
- Please contact your ERCO consultant.



Design and application: www.erco.com/gimbal-r

Gimbal Recessed spotlights



Oval flood freely rotatable With luminaires with round light emission, the oval flood Spherolit lens can be freely rotated to align the light optimally to various objects.

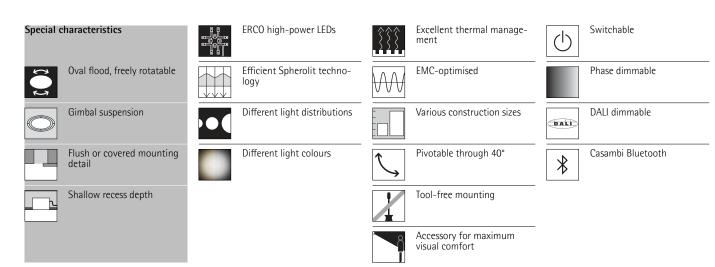


Cardanic suspensionCdEspecially with high ceilings, smallAndswivel movements have a strongandeffect on the position of the lightdedbeam - cardanic suspension facilitates precise luminaire alignment inandsuch cases.and

Covered or flush mounting detail As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.



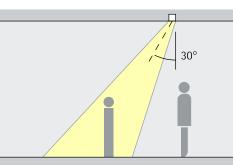
Shallow recess depth In compact installation situations, every millimetre is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.

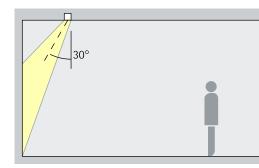


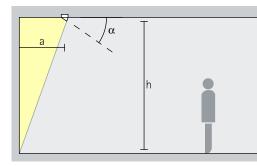
Gimbal Recessed spotlights - Luminaire arrangement

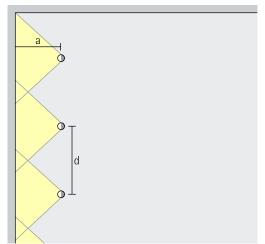
Recessed spotlights

Narrow spot, Spot, Flood









Accentuation Gimbal recessed spotlights accentuate artwork, products and architectural details effectively. The ideal angle of tilt (α) for this is around 30°. The object is modelled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement: $\alpha = 30^{\circ}$

Washlighting The ideal angle of tilt (α) for floodlighting objects with a long, square shape, e.g. pictures, sculptures or merchandise displays, is around 30°.

Arrangement: $\alpha = 30^{\circ}$

Wallwashing For good longitudinal uniformity, the spacing (d) of Gimbal lens wallwashers may be up to 1.2 times the offset from the wall (a).

Arrangement: $d \le 1.2 \times a$

Optimal wall offset and luminaire spacing values are indicated in the wallwasher tables on the product data sheets.

For uniform vertical illuminance, the distance (a) of Gimbal lens wallwashers from the wall should be around one third of the wall height (h). This results in an angle of tilt (a) of approx. 35°.

Arrangement: $a = 1/3 \times h \text{ bzw. } \alpha =$ 35°

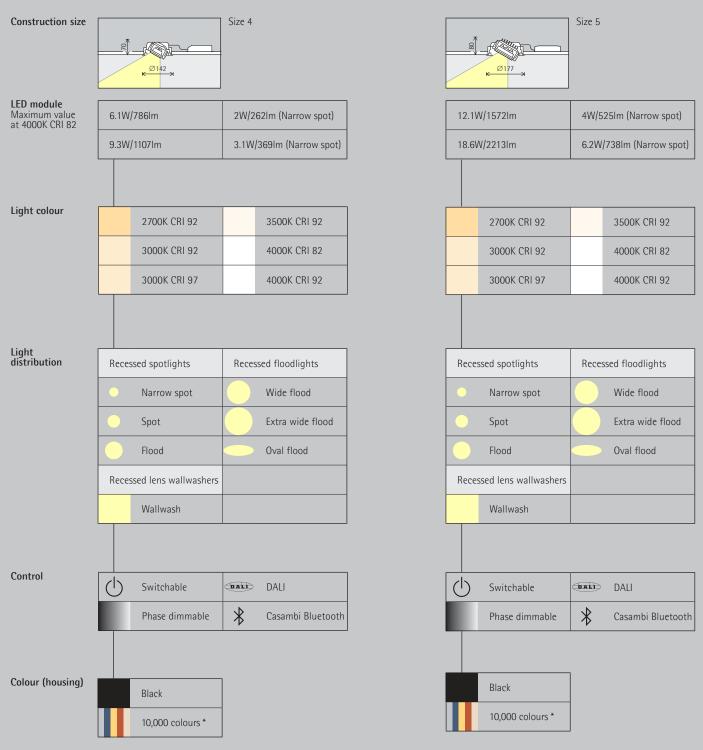
Recessed floodlights Wide flood, Extra wide flood, Oval flood

Recessed lens wallwashers Wallwash

Melissa Flagship Store, Singapore. Architecture: LAANK, Singapore. Photography: Jotham Koh Meng Kwang.



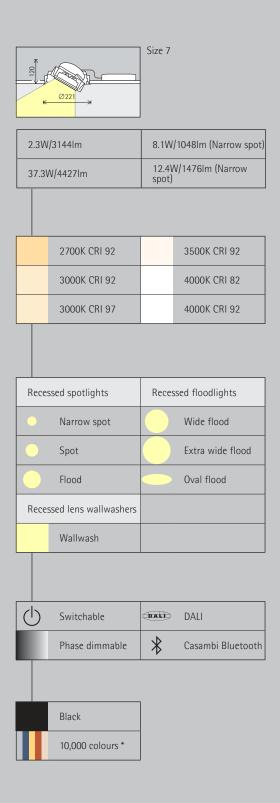
Gimbal Recessed spotlights



Accessories

\bigcirc	Lenses		Concrete mounting enclosure	8	Compensation set
\bigcirc	Snoot		Mounting ring	\bigcirc	Cover ring
\bigcirc	Cross-baffle	$(\dot{\phi}\dot{\phi})$	Spacer plate		
	Honeycomb anti-glare screen		Mounting plate for panelled ceilings		

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* available on request

Article numbers and planning data: www.erco.com/016053

Design and application: www.erco.com/gimbal-r





Helsinki Opera House. Architecture: Eero Hyvämäki, Jukka Karhunen, Risto Parkkinen, Helsinki; Electrical Planning: Reijo Lehtimäki, Ramboll Finland. Lighting design: Kaisa Lindstedt, Ramboll Finland; Electrical Planning: Reijo Lehtimäki, Ramboll Finland. Photography: Tomasz Majewski.